

SBPIL/TILDA/ENV/22-23/1052

Date: 24.09.2022

To,

The Member Secretary,
Chhattisgarh Environment Conservation Board,
Paryawas Bhawan, North Block, Sector-19
Atal Nagar, Raipur (C.G.)

**Sub: Submission of Environment Statement (Form-V) for the financial year 2021-22,
(ending on 31/03/2022).**

Dear Sir,

With reference to above cited subject, we are submitting herewith Environment Statement (Form-V) for our M/s Shri Bajrang Power & Ispat Ltd., at village- Tandwa, Tehsil-Tilda, Raipur (C.G.), as per provision of Environment (Protection) amendment Rule 1993 for the year ending 31st March' 2022 in prescribed format, as required by you.

Please acknowledge the receipt of the same.

Thanking You.

Yours Faithfully,

For, M/s Shri Bajrang Power & Ispat Ltd. Tilda



**G R Telang
(AGM – EHS)**

Encl: As above.

**CC: The Regional Officer,
Chhattisgarh Environment Conservation Board,
Vyavsaik Parisar, Chhattisgarh Housing Board Colony
Kabir Nagar, RAIPUR (C.G.)**

CIN No. : U27106CT2002PLC015184

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The Environment (Protection) Rules, 1986

(FORM – V)

(See rule 14)

Environmental Statement for the financial year ending the 31st March'2022

PART – A

- (i) Name and address of the occupier of the industry operation or process. : **Pradeep Tiwari
Shri Bajrang Power & Ispat Ltd.
Vill.: Tandwa, Tehsil- Tilda,
Raipur (C.G.)**
- (ii) Industry category Primary – (STC code): : **Secondary**
Secondary – (SIC Code)
- (iii) **Production Capacity – Units** : **Capacity**
Sponge Iron Plant - 4,00,000 TPA
Captive Power Plant (WHRB+AFBC) - 32 MW + 9 MW
Pelletization Plant - 14,00,000 TPA
I/O Beneficiation Plant - 20,00,000 TPA
Fly Ash Brick Plant - 01 Crore Nos/Annum
Ferro Alloys Plant - 18000 TPA
ESW / Pipe Plant - 250000 TPA
AOD Plant - 18000 TPA
Oxygen Plant (2x250 Nm³/hr) - 16 TPD
Producer Gas Plant - 17000 Nm³/hr & 5500 Nm³/hr
- (iv) **Year of Establishment**
Kiln – I - 26.03.2013
16 MW CPP (WHRB) - 31.03.2013
Pelletization - 26.03.2013
I/O Beneficiation - 01.11.2014
Fly Ash Brick Plant - 11.01.2017
Producer Gas Plant - 11.01.2017
Oxygen Plant (2x250 Nm³/hr) - 30.10.2018
Kiln – II - 25.06.2019
16 MW CPP (WHRB) - 25.06.2019
09 MW CPP (AFBC) - 25.06.2019
Ferro Alloys Plant - 22.06.2020
ESW / Pipe Plant - 13.02.2020
AOD Plant - 28.06.2021
- (v) Date of the last environmental Statement submitted. : 13.09.2021

PART – B

Water and Raw Material Consumption

- (1) Water consumption m³/d:
Process : 1285 KLD
Cooling : 2703 KLD
Domestic : 50 KLD

Name of Products:	During the previous Financial year 2020-21	During the Current Financial Year 2021-22
(1) Power Plant	96 KLD	96 KLD
(2) I/O Beneficiation	1189 KLD	1189 KLD



(iii) Raw Material Consumption

Name of Raw Material	During the previous Financial Year 2020-21	During the Current Financial Year 2021-22
<u>Sponge Iron Division</u>		
Iron Ore	- 16990.80 MT	52276 MT
Coal	- 226837.96 MT	274196 MT
Dolomite	- 10452.50 MT	16722 MT
Pellets	- 414472.50 MT	419431 MT
<u>Pellet Plant</u>		
Iron Ore Fines	- 39699.40 MT	17169 MT
Iron Ore Concentrate	- 31424.00 MT	Nil
Iron Ore Beneficiation	- 1226101.00 MT	Nil
Bentonite	- 5549.30 MT	7043 MT
Coal	- 49955.26 MT	Nil
I.F.O & F.O	- 9099.85 MT	12397 MT
<u>Iron Ore Beneficiation</u>		
Iron Ore Fines	- 1377395.00 MT	1301177 MT
<u>AFBC (Coal Based Captive Power Plant)</u>		
Coal	- 7230.81 MT	10636 MT
Dolochar	- 2555.40 MT	10445 MT
<u>Ferro Alloys Plant</u>		
Manganese Ore	- 24709.33 MT	31734 MT
Manganese Slag	- 3324.77 MT	Nil
Coal	- 5743.63 MT	10578 MT
Pearl Coke	- 3420.63 MT	3526 MT
Quartz	- Nil	1939 MT
<u>EWR CS/MS Pipe Plant</u>		
HR COIL	- 33032.00 MT	56779 MT
<u>AOD Convertor Plant</u>		
Flour spar	- -	89 MT
Calcined Lime	- -	1308 MT
Ferro Silico Manganese	- -	918 MT
Calcined Dolomite (Convertor)	- -	838 MT
Ferro Silicon (FA-RM)	- -	125 MT
Ferro Manganese	- -	108 MT
Ferro Silico Manganese-MC	- -	60 MT
Ferro Silico Manganese Captive	- -	487 MT
Ferro Manganese HC-Captive	- -	16894 MT
Ferro Manganese MC- Captive	- -	2607 MT
Rice Husk (Convertor)	- -	3 MT
Furnace Oil (Convertor)	- -	496 MT

*Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw materials used.



PART – C

Pollution discharged to environment/unit of output
(Parameter as specified in the consent issued)

(1) Pollutants	Quantity of pollutants Discharged (mass/day)	Concentrations of pollutants in discharges (mass/volume)	Percentage of variation from prescribed standards with reasons
(a) Water	No disposal of polluted water from plant to outside.		
(b) Air	It meet the required standard as prescribed by the board.		

PART – D

HAZARDOUS WASTES

(As specified under Hazardous Wastes/Management and Handling Rules, 1989)

Hazardous Waster	Total Quantity (Kg)	
	During the previous Financial year 2020-21	During the Current financial year 2021-22
(A) Used Oil	1.460 KL	1.830 KL
(B) Resin	0.00 KG	0.00 KG
(C) Phenolic Water	1358 KL	994 KL

(a) From Process

As mentioned above Hazardous wastes.

(b) From pollution control facilities.

No Generation of Hazardous waste.

PART – E

Solid Waste

Total Quantity (MT)

	During the previous Financial year 2020-21	During the Current Financial Year 2021-22
(a) From process:		
Dolochar	: 55432.38 MT	64697 MT
Tailing	: 99606.58 MT	159846 MT
Ferro Slag	: 11045.76 MT	17934 MT
Manganese Oxide Dust	: -	1109 MT
(b) From Pollution control facility:		
Ash	: 28860.37 MT	21703 MT
(c) 1. Quantity recycled or Re-utilized within the unit -		
Dolochar	: 9505.77 MT	10025 MT
	(Consumed in our Captive Power Plant for power generation)	
Ash	: 16157.87 MT	19708 MT
	(Captive Consumption in our Own Bricks Plant)	
Ferro Slag	: 300.00 MT	400 MT
	(Consumed in our Own Bricks Plant)	



2. Sold

Dolochar	:	43658.66 MT	52365 MT
Ash	:	13985.17 MT	1995 MT
Tailing	:	50053.83 MT	148966 MT
Ferro Slag	:	3521.61 MT	13809 MT
Manganese Oxide Dust	:	-	666 MT

PART – F

Please specify the characterization (in terms of composition of quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1. Generated solid waste Dolochar is being consumed in our AFBC Power plant as a raw material.
2. Generated Ash is being used in our own Bricks Plant, sold to others Brick plants and used for internal land filling.
3. Generated Tailing is being sold to cement plant units.
4. Generated Ferro Slag is being sold to other plant.

PART – G

Impact of the pollution abatement measures taken on conservation of natural resources and cost of production.

1. Captive consumption of Char/Dolochar in AFBC boiler so as to avoid use of coal as a raw material in view of, Conservation of environment as well as of natural Resources.
2. Domestic Discharged water of plant after treatment is used for plantation purpose & sprinkled on roads & sites for dust suppression.

PART – H

Additional measures/investment proposal for environment protection including abatement of Pollution, prevention of pollution.

Solid waste Management, RCC Road Construction inside the Premises, Extensive Tree Plantation and up keeping of all Pollution Control Equipment and installed Continuous Online Ambient and Stack Emission monitoring Systems for monitoring of Ambient Air Quality & stack emission and taking corrective actions accordingly.

PART – I

Any other particulars for improving the quality of the environment.

Recycle of almost all solid wastes so as to ensure no disposal of solid waste as well as no discharge of water from factory to outside.

